

Marine No.	Location	Operation	Program	Configuration	Build Target	Remarks
PI-111	Assembly	Rebuild	Temperature Profile	Diffuser G.O. trip, extended I.O.; burner cans relocated between diffuser struts.	2/15	Evaluate long range production fixes.
PI-112	Assembly	Rebuild	Endurance and Temperature Profile (Replacing PI-1)	Diffuser G.O. trip, extended I.O., strut trip (from PI-1); new burner cans matched to this diffuser.	2/19	Evaluate durability using quick fix diffuser with new matched burner cans.
PI-113	4-4 Stand	Hot Section Inspection	Performance and Temperature Profile	Diffuser G.O. trip, extended I.O., strut trip; new burner cans matched to diffuser (like PI-112)	—	Evaluate performance using quick fix diffuser with new matched burner cans. To follow PI-113 into C-5 altitude stand.
PI-114	Assembly	Rebuild	Endurance	Diffuser G.O. trip, extended I.O., strut trip; new burner cans matched to diffuser (like PI-112, 113). Bolted compressor rotor. Latest available controls.	2/23	Evaluate durability using quick fix diffuser with new matched burner cans, bolted compressor rotor, latest controls.
PI-115	C-5 Stand	On Test	Compressor Durability	Older diffuser without extended I.O. or strut trips; older burner cans. (Similar to latest configuration cited on 1-4-62). Bolted compressor rotor. Integrated control system using non-production hardware.	—	Evaluate bleed bypass effects on temperature profile, bolted rotor durability under surge, C-5 stability.
PI-116 (P-2)	A-5 Stand	On Test	Injector then Hartford test stand shakedown	Not a L-30 development engine.	—	Injector test in process.

Machine No.	Location	Operation	Program	Configuration		Target	Remarks
				Old	New		
RD-115	A-1 Stand	On Test	Controls Development	Old diffuser and burner cans. Detail control system.	—	—	Replaces RD-2, check out Retract control system.
RD-1	Returned To Assembly From A-1 Stand	Rebuild	Compressor Structural Evaluation and Indenture	To incorporate heavy turbine vibration dampers as a result of RD-2 experience. (All other engines now have heavy dampers). Also to have bolted compressor rotor. Diffuser configuration not established.	Not Yet Established	Not Yet Established	Just returned to assembly for heavy dampers. Next program to run strain gage on bolted rotor to evaluate stress levels.
RD-2	Returned To Assembly From A-1 Stand	Rebuild	Controls Development	To rebuild turbine with heavy vibration dampers. Also to have bolted compressor rotor. Diffuser configuration not established.	Not Yet Established	Not Yet Established	Turbine blade failure at 94 hours believed due to absolute light weight dampers.
RD-3	A-2 Stand	On Test	Initial Delivery Engine - Green run	Older diffuser/burner can configuration similar to RD-1. (Revised diffuser and burner cans not yet established together with bolted rotor to be incorporated after green run). Retract control system.	—	—	Green run with Retract control system.